

2
3 AN ELECTROCATALYTIC CATHODE DEVICE OF PALLADIUM
4 AND IRIIDIUM ON A HIGH DENSITY OR POROUS CARBON
5 SUPPORT AND A METHOD FOR MAKING SUCH A CATHODE
6

7 ABSTRACT OF THE DISCLOSURE

8 The present invention relates to a method of producing an
9 electrocatalytic cathode for use in an electrochemical cell
10 system comprising the steps of providing a carbon substrate and
11 simultaneously depositing palladium and iridium on the carbon
12 substrate by cyclic voltammetry or by controlled potential
13 coulometry. The simultaneous deposition of the palladium and
14 iridium is preferably carried out using a solution containing
15 1.0mM palladium chloride, 2.0mM sodium hexachloroiridate, 0.2M
16 potassium chloride, and 0.1M hydrochloric acid.